SIEMENS

Data sheet

6ES7322-5FF00-0AB0



SIMATIC S7-300, Digital output SM 322, isolated, 8 DO, 120/230 V AC, 2A, with single rooting/channel and selectable failure mode, 1x 40-pole

Figure similar

1. W. 110.01	
Supply voltage	
Load voltage L1	
 Rated value (AC) 	230 V; 120/230 V AC
 permissible range, lower limit (AC) 	79 V
 permissible range, upper limit (AC) 	264 V
Input current	
from load voltage L1 (without load), max.	2 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	8.6 W
Digital outputs	
Number of digital outputs	8
Short-circuit protection	Yes; to be provided externally; fuse 3.15 A / 250 V, quick response
Controlling a digital input	Yes
Size of motor starters according to NEMA, max.	Size 5 according to NEMA
Zero-crossing switch	Yes; 60 V
Switching capacity of the outputs	
on lamp load, max.	50 W
Output voltage	
• for signal "1", min.	L1 (-8.5 V)
Output current	
for signal "1" rated value	2 A
 for signal "1" permissible range for 0 to 40 °C, min. 	10 mA
 for signal "1" permissible range for 0 to 40 °C, max. 	2 A
 for signal "1" permissible range for 40 to 60 °C, min. 	10 mA
 for signal "1" permissible range for 40 to 60 °C, max. 	1 A
for signal "1" minimum load current	10 mA
for signal "1" permissible surge current, max.	20 A; with 2 half waves
• for signal "0" residual current, max.	2 mA
Parallel switching of two outputs	
• for uprating	No
for redundant control of a load	Yes
Switching frequency	
 with resistive load, max. 	10 Hz
 with inductive load, max. 	0.5 Hz
• with inductive load (acc. to IEC 60947-5-1, AC15), max.	0.5 Hz
• on lamp load, max.	1 Hz
Total current of the outputs (per group)	
horizontal installation	

— up to 40 °C, max.	8 A
— up to 60 °C, max.	4 A
vertical installation	
— up to 40 °C, max.	4 A
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes; Parameterizable
Alarms	
Diagnostic alarm	Yes; Parameterizable
Diagnostics indication LED	
 Group error SF (red) 	Yes
 Status indicator digital output (green) 	Yes
Potential separation	
Potential separation digital outputs	
 between the channels 	Yes
 between the channels, in groups of 	1
 between the channels and backplane bus 	Yes; Optocoupler
Isolation	
Isolation tested with	1 500 V AC
connection method	
required front connector	40-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	275 g

last modified: 3/12/2024 🖸